



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "10¹³/₁₆" Deep 1600 System 1" Dry Glazed Aluminum Curtain Wall – S.M.I.

APPROVAL DOCUMENT: Drawing No. 1795, titled series "10¹³/₁₆" Deep 1600 System 1 Curtain Wall (S.M.I.), sheets 1 through 12 of 12, dated 04/04/12, with latest revision "A1" dated 09/04/13, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 12-0622.09 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. Gascon
11/5/13

NOA No. 13-1009.08
Expiration Date: January 08, 2019
Approval Date: November 14, 2013
Page 1

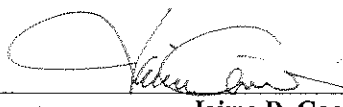
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 12-0622.09)
2. Drawing No. 1795, titled Series "10¹³/₁₆" Deep 1600 System 1 Curtain Wall (S.M.I.)", sheets 1 through 12 of 12, dated 04/04/12 with the latest revision "A1", dated 09/04/13, prepared by W.W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-B8873.01-550-18**, dated 05/22/12, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 12-0622.09)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0202-05**, dated 02/07/05 and 05/21/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0727.06)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-0406-01**, dated 06/29/01, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 01-0815.01)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-1106-00**, dated 06/29/01, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 01-0815.01)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-1009.08
Expiration Date: January 08, 2019
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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 03/13/12, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 12-0622.09)
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **12-1231.08** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 03/28/13, expiring on 12/11/18.
3. Trelleborg Part No. **BRM-270400** EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1509 PSI; D395B 22 HRS @ 70°F 16%; ASTM D 2240 Type A 70; ASTM D 573 70 HRS @ 100°C +2.0%, -9.2% and + 6 pts.; ASTM D 624-Die-C 101.7 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -42.8°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit.
(Submitted under previous NOA No. 12-0622.09)
4. Test Reports No.'s **ARDL-PN-74740-A** and **ARDL-PN-7474-BB**, issued and prepared by Akron Rubber Development Laboratory, Inc., dated 08/21/02, for TREMCO EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1871 PSI, D395B 22 HRS 100°C 14.4%; ASTM D 573 70 HRS @ 100°C -5.0%, -2.2% and + 4 pts.; ASTM D 624-Die-C 162.2 ppi; ASTM D 1149 100 HRS/ 100pphm @ 40°C 20% No Cracks; ASTM D746 max. -58°C; ASTM D 926 No Migration Stain and ASTM C 1166 No Limit, dated 08/28/07 and 09/04/07, both signed by Jim Drummond.
(Submitted under previous NOA No. 07-0727.06)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, issued by W.W. Schaefer Engineering & Consulting, P. A., dated 03/14/12, signed and sealed by Warren W. Schaefer, P.E.
(Submitted under previous NOA No. 12-0622.09)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-1009.08
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

2. Statement letter of no financial interest, issued by W.W. Schaefer Engineering & Consulting, P. A., dated 02/28/12, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 12-0622.09)
3. Notification of successor engineer per section 61g15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to the curtain wall system 1600 System 1 & 2 of Kawneer Company, Inc., dated 02/29/12, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 12-0622.09)
4. Laboratory compliance letter for Test Report No. **ATI-B8873.01-550-18**, issued by Architectural Testing, Inc., dated 05/22/12, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 12-0622.09)
5. Laboratory compliance letter for Test Report No. **HTL-0049-0202-05**, issued by Hurricane Test Laboratory, LLC, dated 02/21/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0727.06)
6. Laboratory addendum letters for Test Reports No.'s **HTL-0049-0406-01** and **HTL-0049-1106-00**, both issued by Hurricane Test Laboratory, Inc., dated 09/15/03, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0727.06)
7. Laboratory compliance letters for Test Reports No.'s **HTL-0049-0406-01** and **HTL-0049-1106-00**, both issued by Hurricane Test Laboratory, Inc., dated 06/29/01, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 01-0815.01)

G. OTHERS

1. Notice of Acceptance No. **12-0622.09**, issued to Kawneer Company, Inc., for their Series "**1600 System 1 Aluminum Curtain Wall – S.M.I.**", approved on 08/30/12 and expiring on 01/08/14.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
Reference only! 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of curtain wall system, prepared by Architectural Testing, Inc., Test Report No. **ATI-B3877.01-550-18**, dated 02/20/12, signed and sealed by Vinu J. Abraham, P. E.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-1009.08
Expiration Date: January 08, 2019
Approval Date: November 14, 2013

GENERAL NOTES:

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT CURTAIN WALL SYSTEMS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THIS CURTAIN WALL SYSTEM MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $KD = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $CD = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

CORNER CONSTRUCTION:

ONE-PIECE VERTICAL AND HORIZONTAL FRAMING AND INTERMEDIATES: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #9). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 1 1/2" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

TWO-PIECE VERTICAL AND HORIZONTAL FRAMING AND INTERMEDIATES: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #9). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 12 X 7/16" PHTF SCREWS & . THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 FH & 2 PH NO. 12 X 1 1/2" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.





GLASS D.L.O. SIZE VS. PRESSURE

GLASS OPTIONS	MAXIMUM D.L.O. WIDTH	MAXIMUM D.L.O. HEIGHT	ALLOWABLE DESIGN PRESSURE
1, 2, 3 & 4	58 1/2"	82 1/8"	+/-90 PSF
	51 3/8"	93 1/2"	+/-90 PSF
	50 5/8"	94 3/4"	+/-90 PSF
	73 3/4"	54 5/8"	+/-90 PSF
1 & 2	58 1/2"	93 1/2"	+/-65 PSF
	57 3/4"	94 3/4"	+/-65 PSF
5 & 6	58 1/2"	93 1/2"	+/-90 PSF
	57 3/4"	94 3/4"	+/-90 PSF
	73 3/4"	54 5/8"	+/-90 PSF

SEE GLAZING DETAILS FOR GLASS OPTIONS
HEIGHT & WIDTH MAY NOT BE INTERCHANGED!

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

ANCHOR LEGEND

ANCHOR SYMBOL	ANCHOR DESCRIPTION
	STANDARD WIND LOAD ANCHOR
	STANDARD T-ANCHOR
	DOOR JAMB U-ANCHOR
	F-ANCHOR (FRAME MEMBER ENDS)

SEE SHEETS 4-6 FOR DETAILS OF ANCHORS

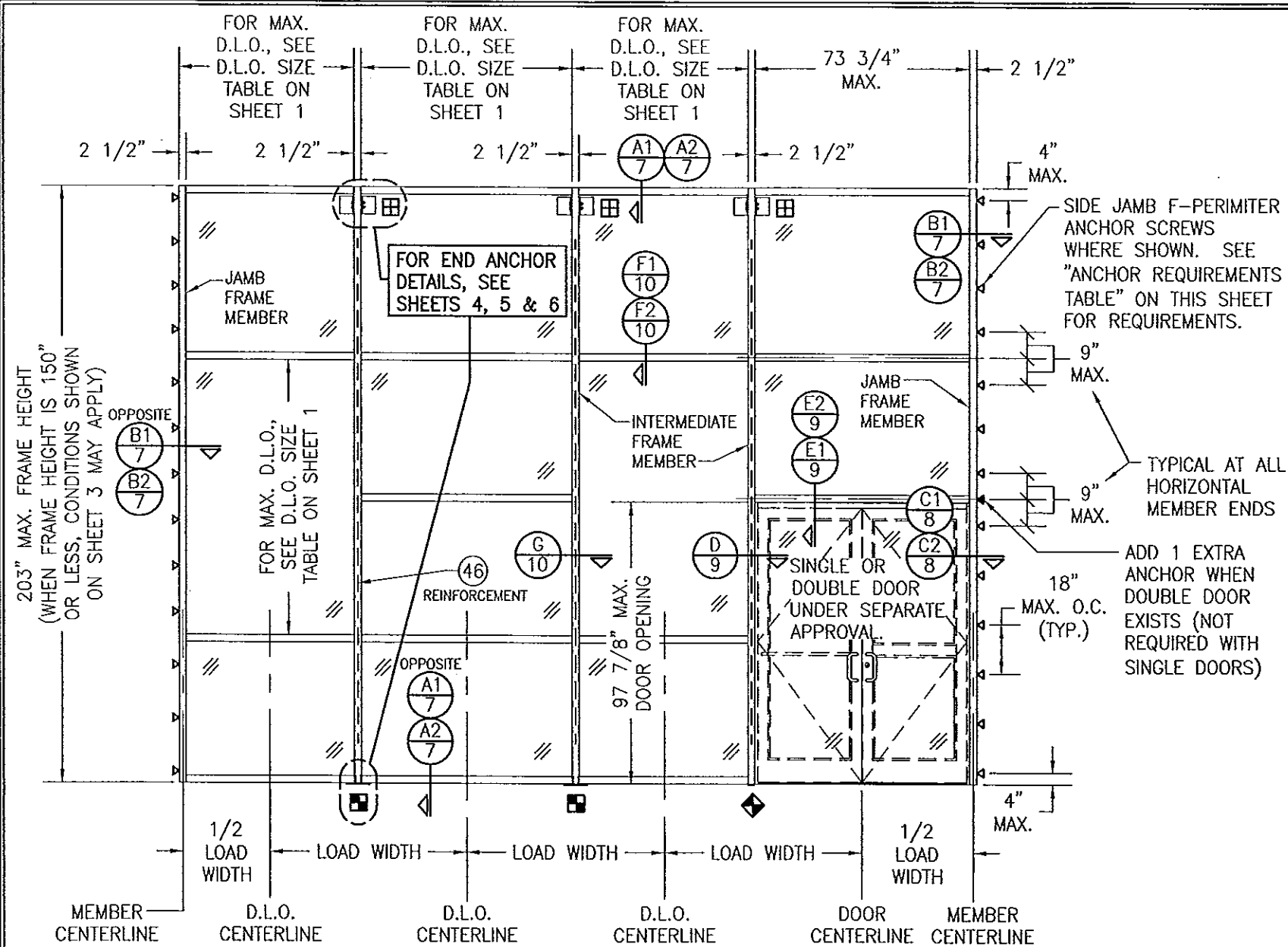
ANCHOR REQUIREMENTS TABLE
(SINGLE SPAN REINFORCED & NON-REINFORCED CURTAIN WALL)

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
F-PERIMETER ANCHOR SCREWS			
MIN. 16 GA. 50 KSI METAL STUD	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" DIA. GR. 5 COARSE THREAD SCREW	1 1/4"	3/4"
MIN. 1/8" THK A36 STEEL	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 3/8" CONCRETE SCREW ANCHOR	2 1/2"	2 1/2"
T, F & U-ANCHOR SCREWS/BOLTS (VERTICAL MEMBER ENDS)			
MIN. 1/4" THK A36 STEEL	3/8"-16 430 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	3/4"
	3/8" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	3/4"
	1/4-14 OR 20 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
	1/4" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	1/2"
	5/16-24 GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
	5/16" GR. 5 CS OR 410 SS BOLT WITH LOCK WASHER & NUT	FULL	5/8"
(2) MIN. 3000 PSI CONCRETE	(1) 1/2" CONCRETE SCREW ANCHOR	3 1/4"	SEE DETAILS
(1) 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).			
(2) MINIMUM CONCRETE SLAB THICKNESS FOR PLACEMENT OF "T", "F" & "U" ANCHORS IS 6 3/4".			

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.08
Expiration Date 01/08/2019

By 
Miami Dade Product Control

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-48	DATE: 04/04/12
DATE 09/04/13	BY W.R.M.
REVISION DESCRIPTION	NO.
UPDATE GLASS DESCRIPTION	AT
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1795	REV. A
SHEET NO. 1 OF 12	



EXTERIOR ELEVATION:
SINGLE-SPAN REINFORCED CURTAIN WALL
SCALE: 1/4" = 1'-0"

NOTES APPLICABLE TO SINGLE-SPAN REINFORCED CURTAIN WALLS

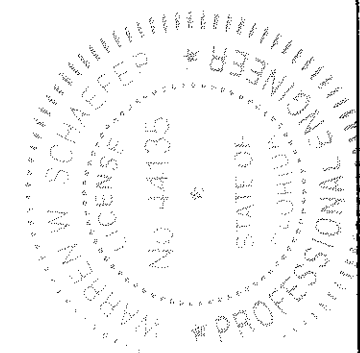
1. REINFORCEMENT SHALL RUN CONTINUOUS IN INTERMEDIATE VERTICAL MEMBERS & EXTEND TO WITHIN 17 1/2" OF THE ENDS.
2. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
3. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
4. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
5. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.
6. DOOR OPENINGS WIDER THAN THAT SHOWN ARE NOT PART OF THE SCOPE OF THIS APPROVAL. IF WIDER DOOR OPENINGS ARE REQUIRED, THEY SHALL BE EVALUATED & CERTIFIED UNDER SEPERATE JOB APPROVAL.

**ALLOWABLE DESIGN PRESSURE
(SINGLE SPAN REINFORCED CURTAIN WALL)**

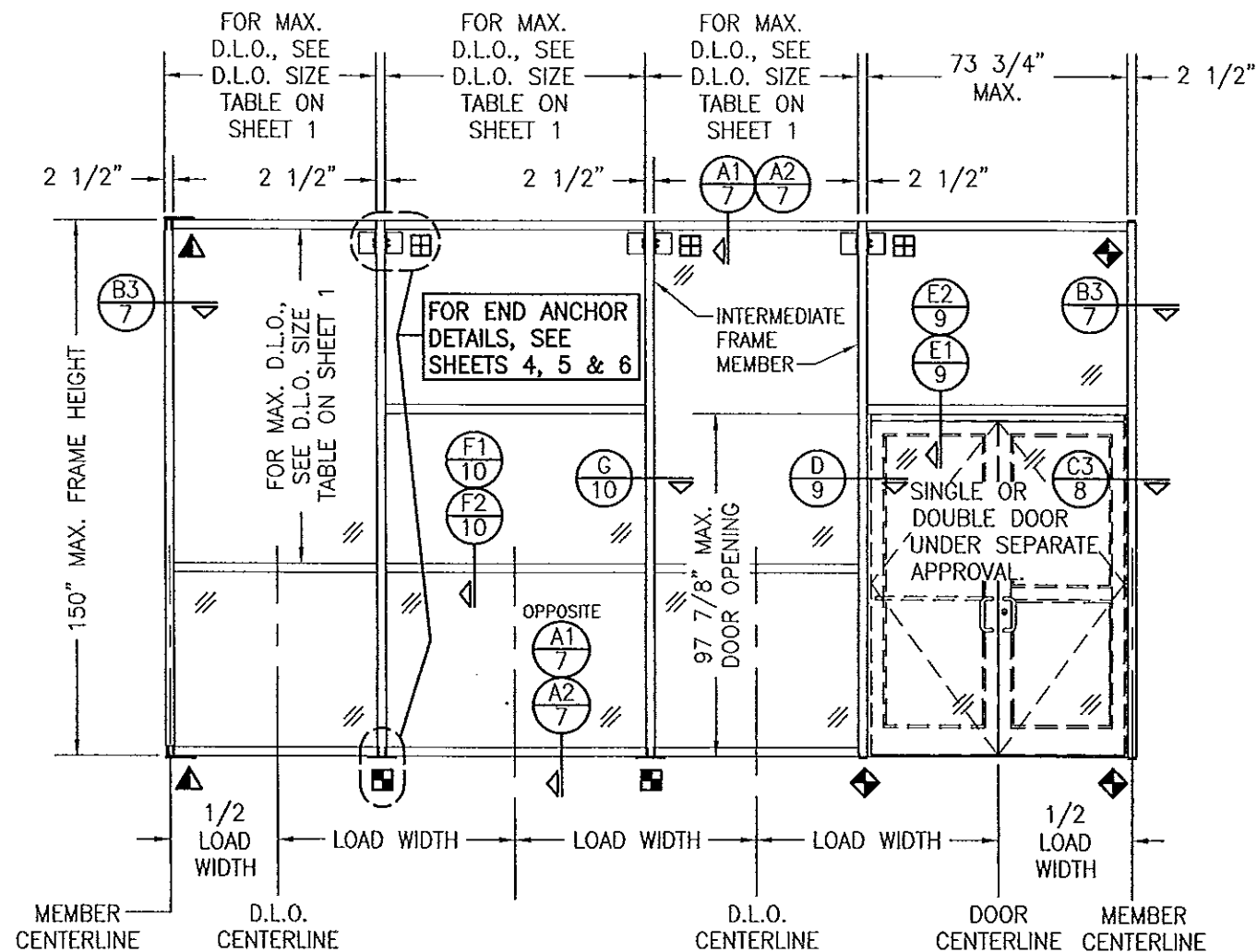
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)
203	76 1/4	81.0
	72	85.8
	68 5/8	90.0
	62	99.6
192	76 1/4	85.6
	72	90.7
	68 5/8	95.2
	62	105.3
180 & LESS	76 1/4	90.0
	72	95.3
	68 5/8	100.0
	62	110.0

- NOTES:**
1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
 2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA. ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
 3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.
 4. AT SPAN OF 180" & LESS, LOAD WIDTH CONTROLS THE ALLOWABLE PRESSURE. THEREFORE, IT SHALL NOT BE ASSUMED THAT INTERPRETATION OF PRESSURE VALUES CAN BE DONE WITH SPANS UNDER 180". INTERPRETATION OF PRESSURE VALUES BETWEEN THOSE SHOWN MAY APPLY.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-1009.08
Expiration Date 02/08/2019
By *[Signature]*
Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 04/04/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1795		REV. A	
SHEET NO. 2		OF 12	



EXTERIOR ELEVATION:
SINGLE-SPAN NON-REINFORCED CURTAIN WALL
SCALE: 1/4" = 1'-0"

NOTES APPLICABLE TO SINGLE-SPAN NON-REINFORCED CURTAIN WALLS

1. THE ELEVATION SHOWN ILLUSTRATES SIDE JAMB FRAME MEMBERS WITH FULL SPANS END SUPPORTED BY "F" OR "U" ANCHORS. IT IS OPTIONAL TO OMIT THE "F" & "U" ANCHORS AND INSTALL THE SIDE JAMB F-PERIMETER ANCHOR SCREWS AS SHOWN IN THE REINFORCED WALL ELEVATION ON SHEET 2.
2. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.
3. THE SINGLE-SPAN ELEVATION SHOWN SHOWS ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET & PROPER LOAD WIDTH (DISTANCE BETWEEN DOOR CENTERS) IS CONSIDERED WHEN DETERMINING ALLOWABLE DESIGN PRESSURE.
4. ALTHOUGH A DOOR SECTION IS SHOWN AT A SIDE JAMB, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR & THE DOOR MAY EXIST IN ANY BAY.
5. THE ELEVATION HERE-IN SHOWS T-ANCHORS AT THE BASE OF THE WALL ONLY. THESE ANCHORS MAY ALSO BE USED AT THE TOP OF A WALL IN LIEU OF THE WIND LOAD ANCHORS SHOWN PROVIDING THEY ARE INSTALLED THE SAME AS SHOWN AT THE BASE.
6. DOOR OPENINGS WIDER THAN THAT SHOWN ARE NOT PART OF THE SCOPE OF THIS APPROVAL. IF WIDER DOOR OPENINGS ARE REQUIRED, THEY SHALL BE EVALUATED & CERTIFIED UNDER SEPERATE JOB APPROVAL.
7. WHEN THERE IS NO CONTINUOUS JAMB SUPPORT, THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN JAMB FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

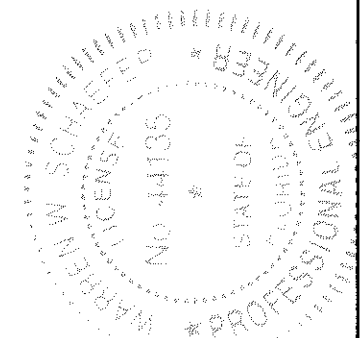
**ALLOWABLE DESIGN PRESSURE
(SINGLE SPAN
NON-REINFORCED
CURTAIN WALL)**

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS & NEG PSF)
150	76 1/4	81.0
	72	85.8
	68 5/8	90.0
	62	99.6
144	56	110.0
	76 1/4	84.4
	72	89.4
	68 5/8	93.8
132 & LESS	62	103.8
	58	110.0
	76 1/4	90.0
	72	95.3
	68 5/8	100.0
	62	110.0

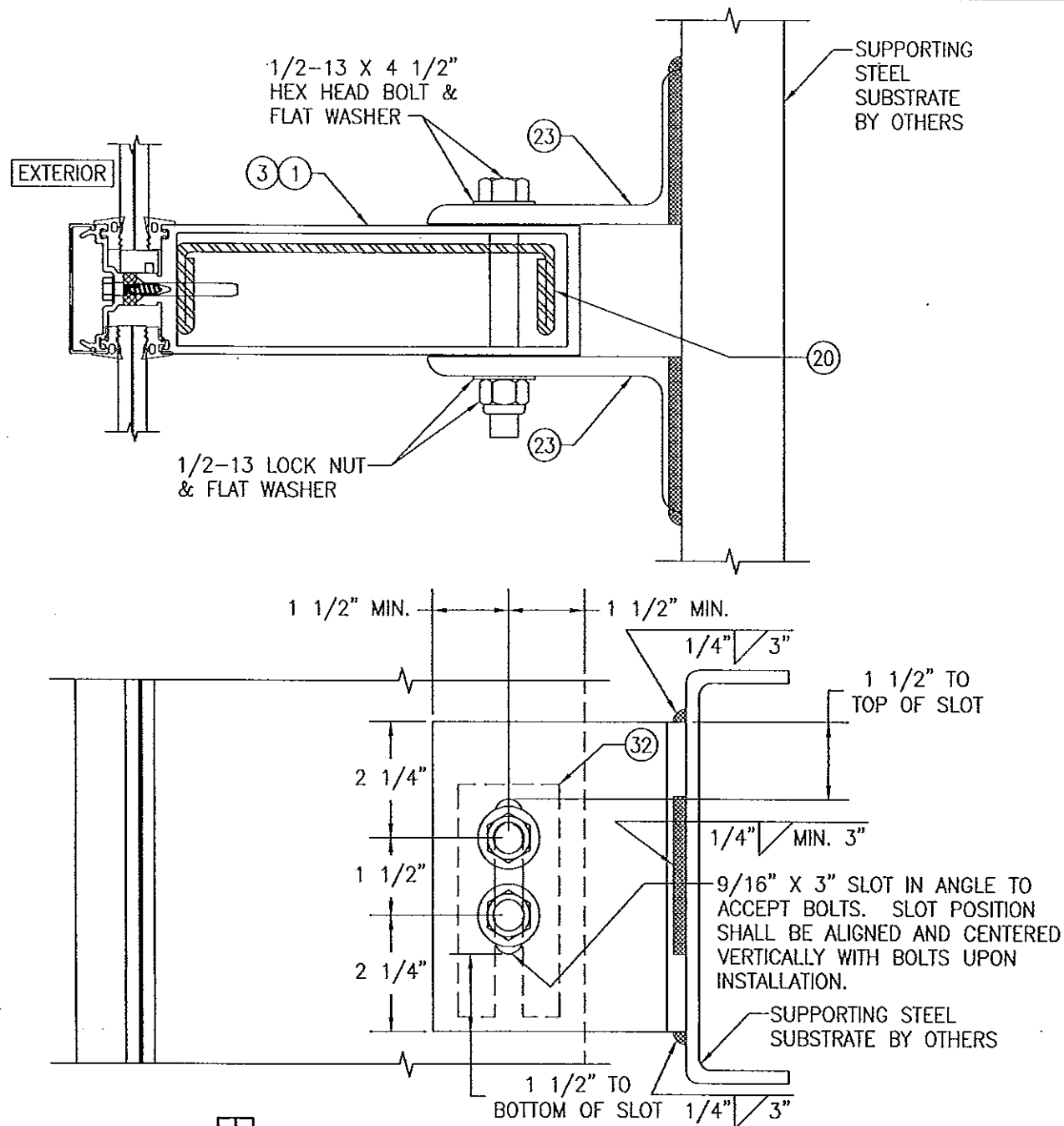
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
1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
2. PRESSURES SHOWN ARE SPECIFIC TO EACH INDIVIDUAL MULLION SUPPORT AREA. ALLOWABLE PRESSURE MAY VARY FROM BAY TO BAY AS DICTATED BY EACH INDIVIDUAL MULLION CONDITION.
3. LESSER OF PRESSURES STATED IN THIS TABLE & THE ALLOWABLE GLASS PRESSURE, AS SHOWN ON SHEET 1, SHALL CONTROL AS ALLOWABLE FOR THE WALL ASSEMBLY.
4. AT SPAN OF 132" & LESS, LOAD WIDTH CONTROLS THE ALLOWABLE PRESSURE. THEREFORE, IT SHALL NOT BE ASSUMED THAT INTERPRETATION OF PRESSURE VALUES CAN BE DONE WITH SPANS UNDER 132". INTERPRETATION OF PRESSURE VALUES BETWEEN THOSE SHOWN MAY APPLY.

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as complying with the Florida
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Expiration Date 01/08/2019
By *[Signature]*
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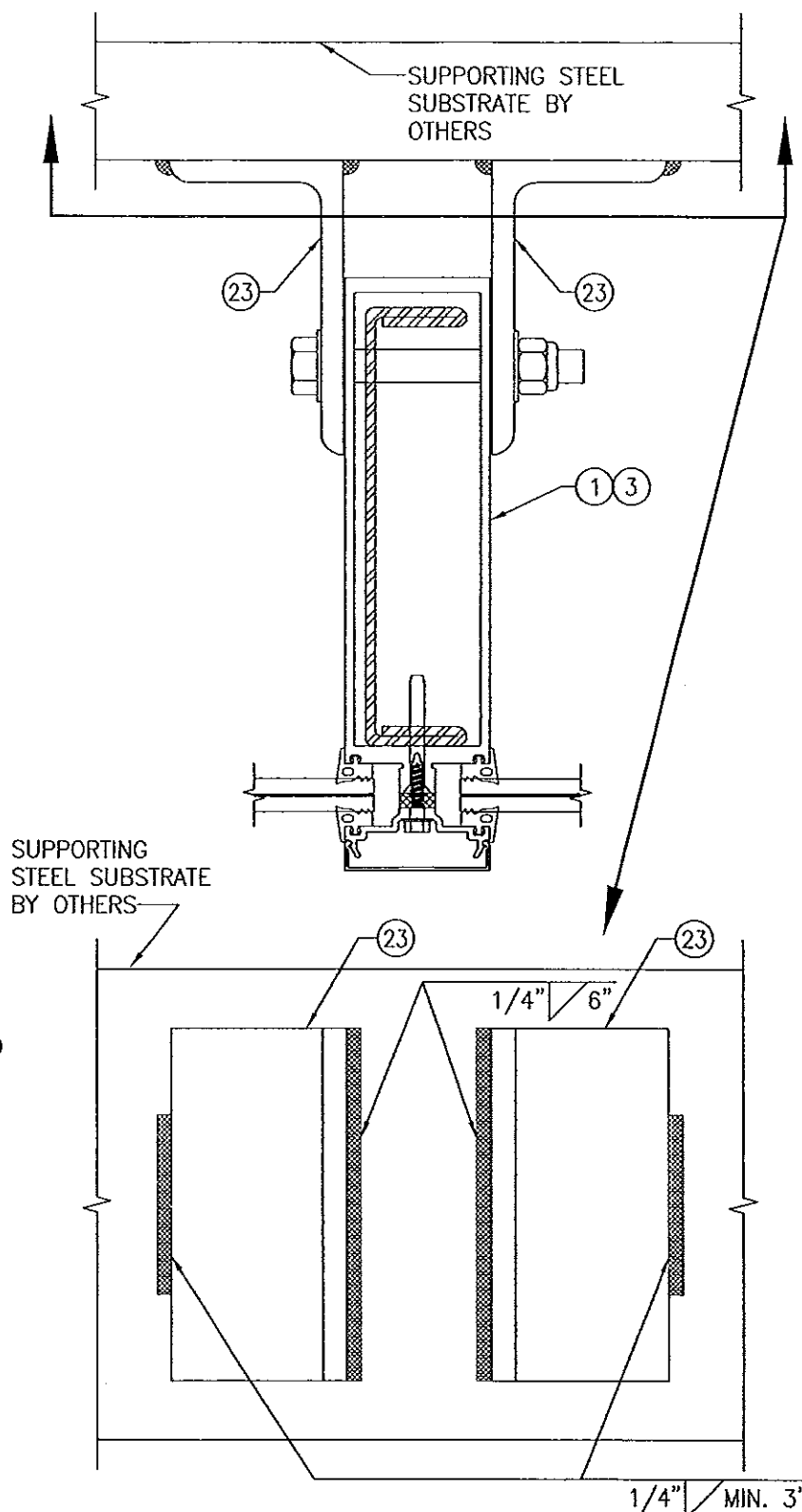


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 01/04/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1795	
REV. A		SHEET NO. 3 OF 12	




 **STANDARD WIND LOAD ANCHOR**
SCALE: 1/3 FULL

NOTE: ALL 1/2" BOLTS CONNECTING ANGLES TO MULLIONS SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.

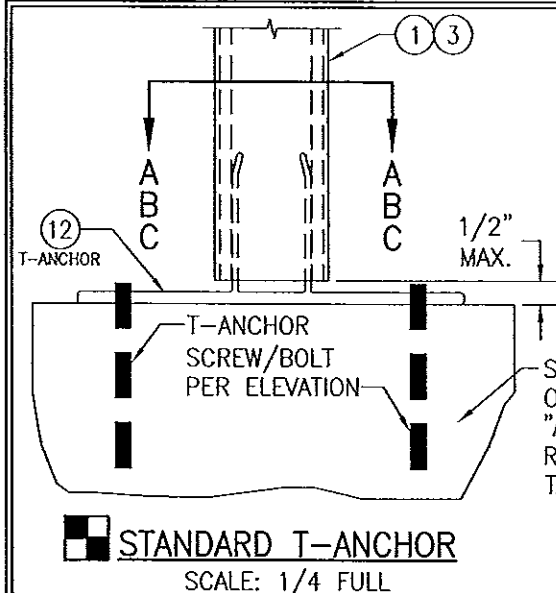


ALTERNATE WELD DETAIL FOR WIND LOAD ANCHORS
SCALE: 1/3 FULL

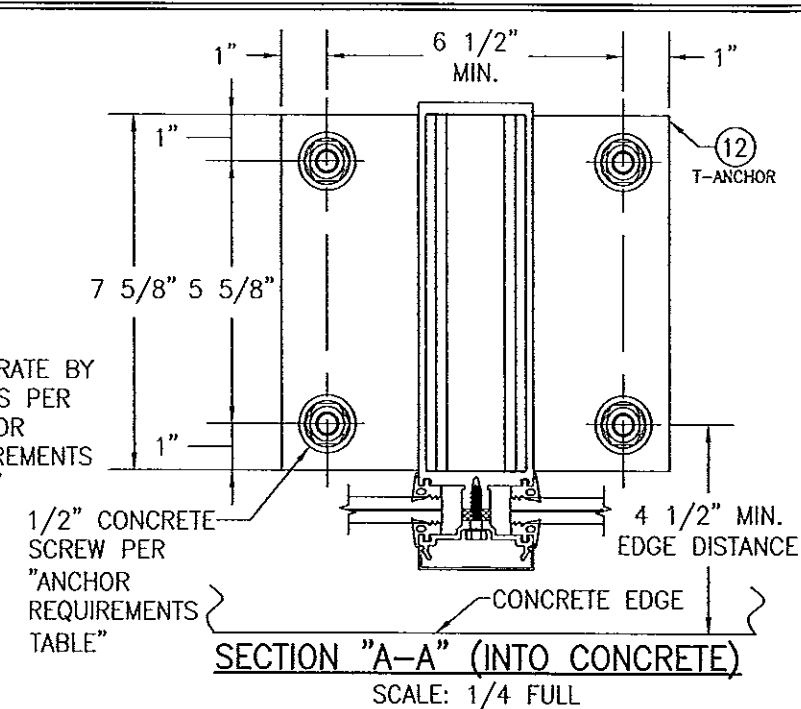
PRODUCT RENEWED
as complying with the Florida
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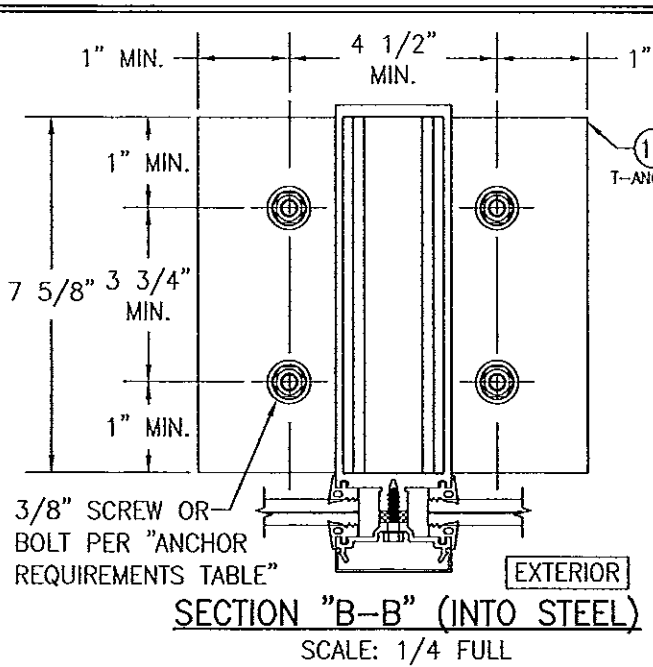
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PLOT: 1=3		DATE: 04/04/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION		SEP 04 2013	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1795	
		REV. A	
		SHEET NO. 4 OF 12	



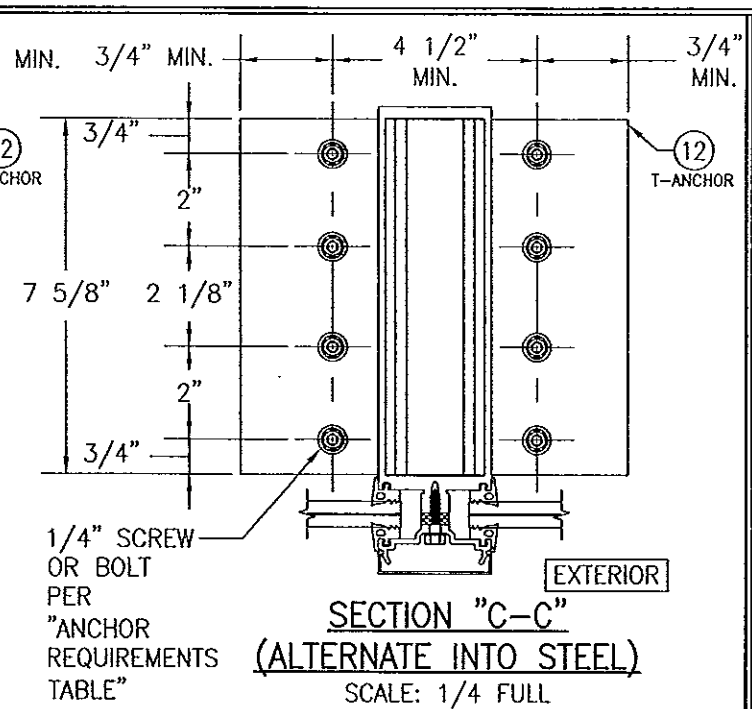
STANDARD T-ANCHOR
SCALE: 1/4 FULL



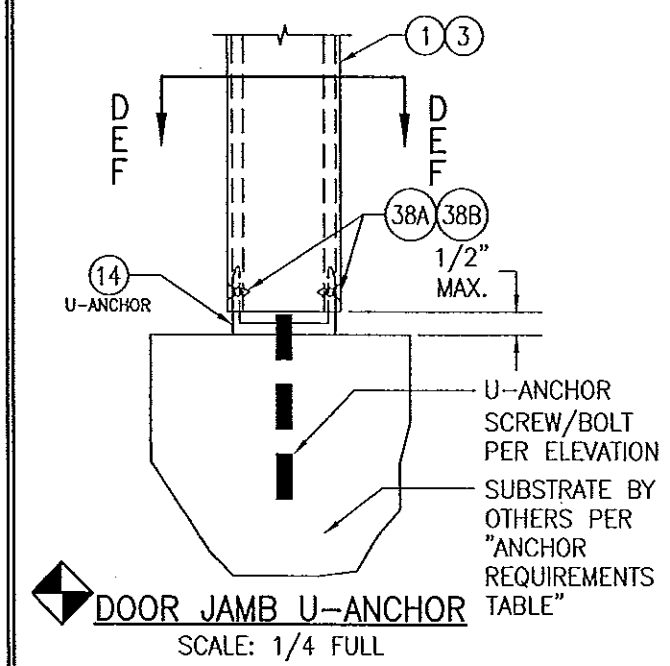
SECTION "A-A" (INTO CONCRETE)
SCALE: 1/4 FULL



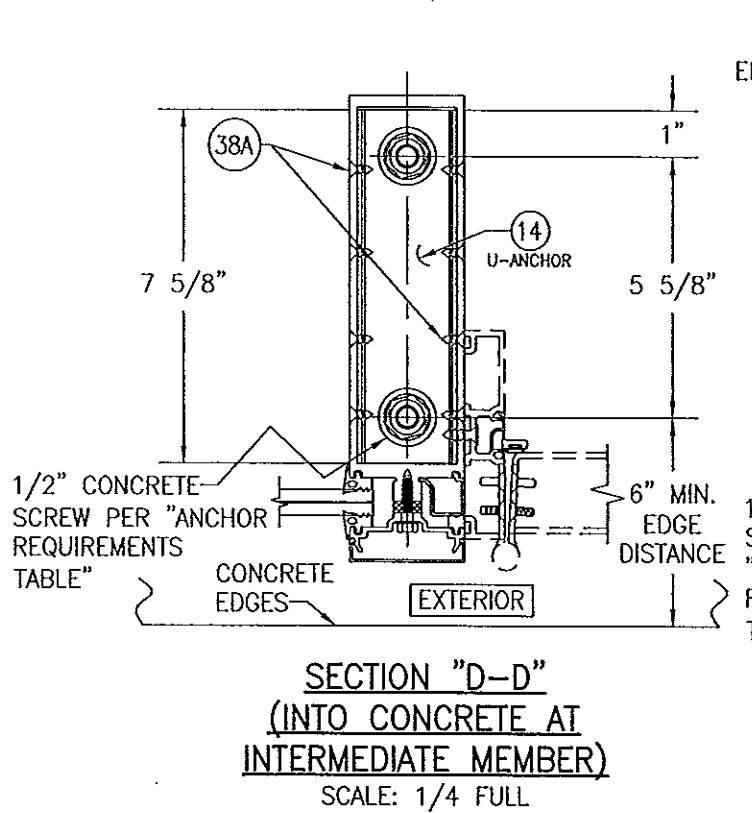
SECTION "B-B" (INTO STEEL)
SCALE: 1/4 FULL



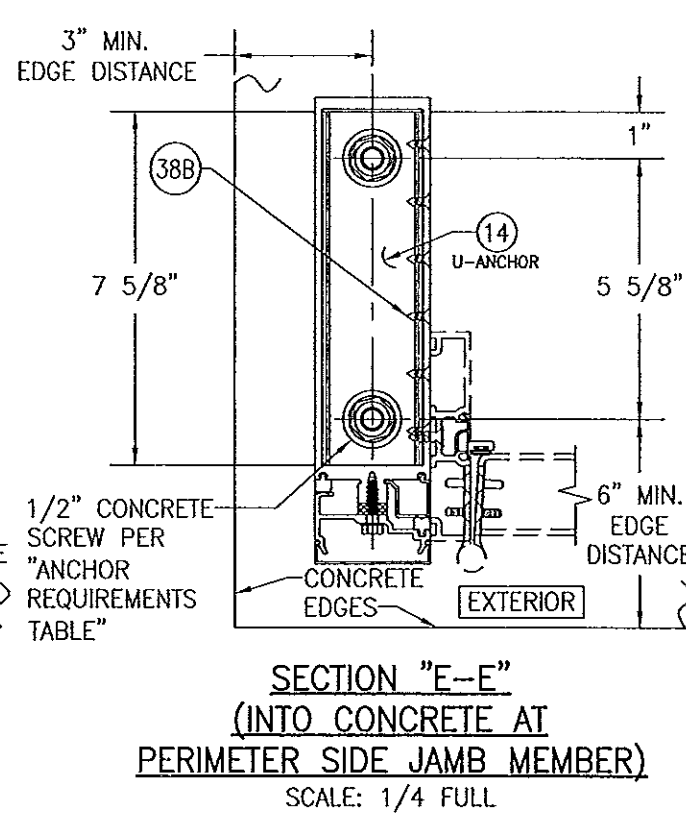
SECTION "C-C" (ALTERNATE INTO STEEL)
SCALE: 1/4 FULL



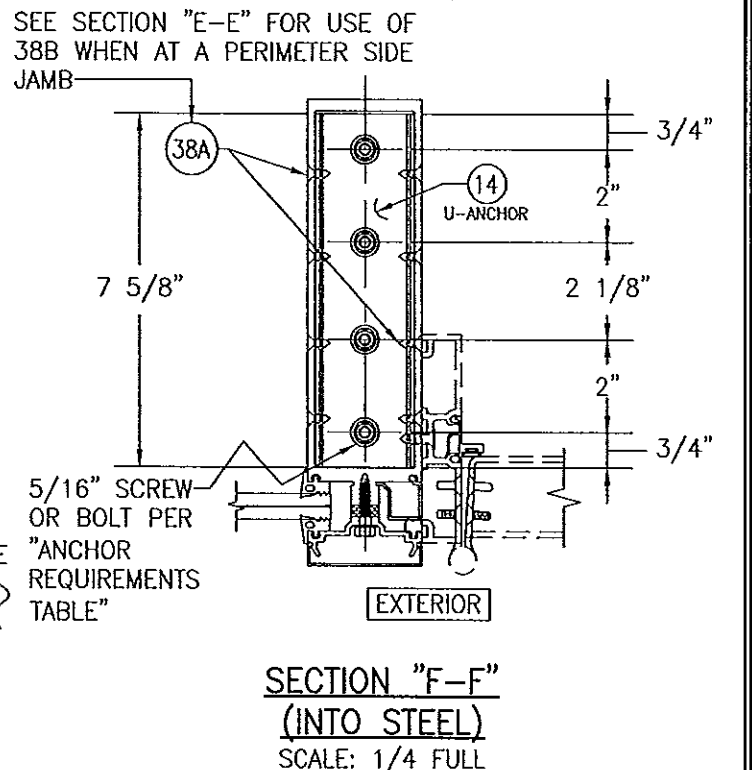
DOOR JAMB U-ANCHOR
SCALE: 1/4 FULL



SECTION "D-D" (INTO CONCRETE AT INTERMEDIATE MEMBER)
SCALE: 1/4 FULL

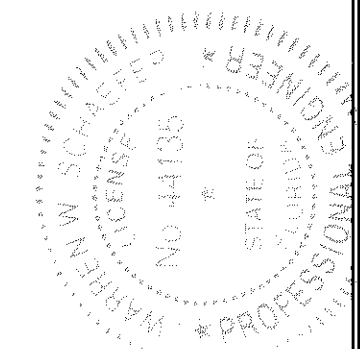


SECTION "E-E" (INTO CONCRETE AT PERIMETER SIDE JAMB MEMBER)
SCALE: 1/4 FULL

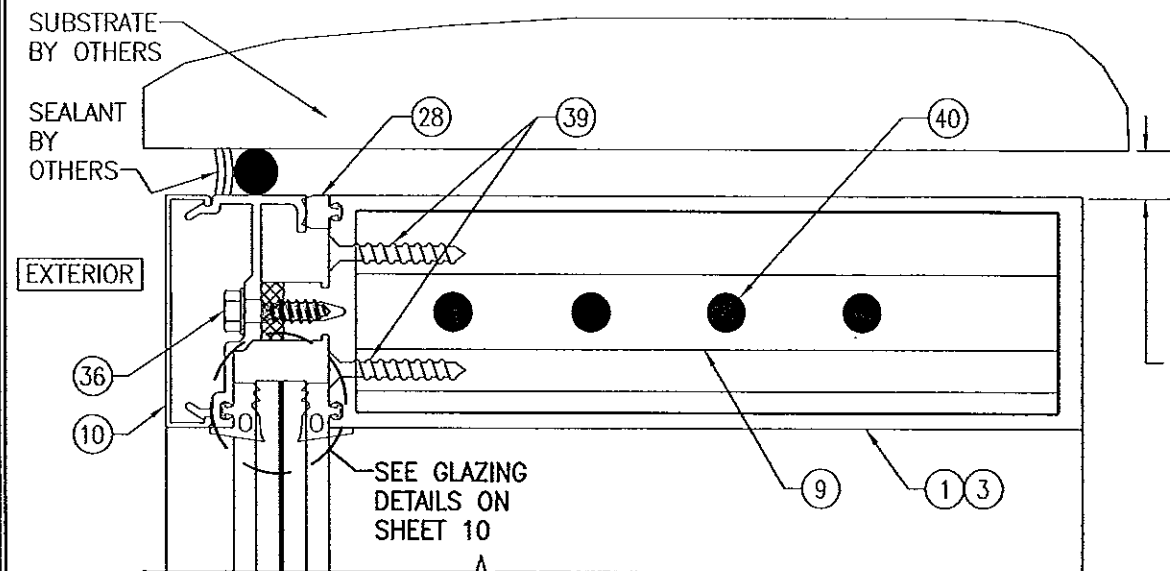


SECTION "F-F" (INTO STEEL)
SCALE: 1/4 FULL

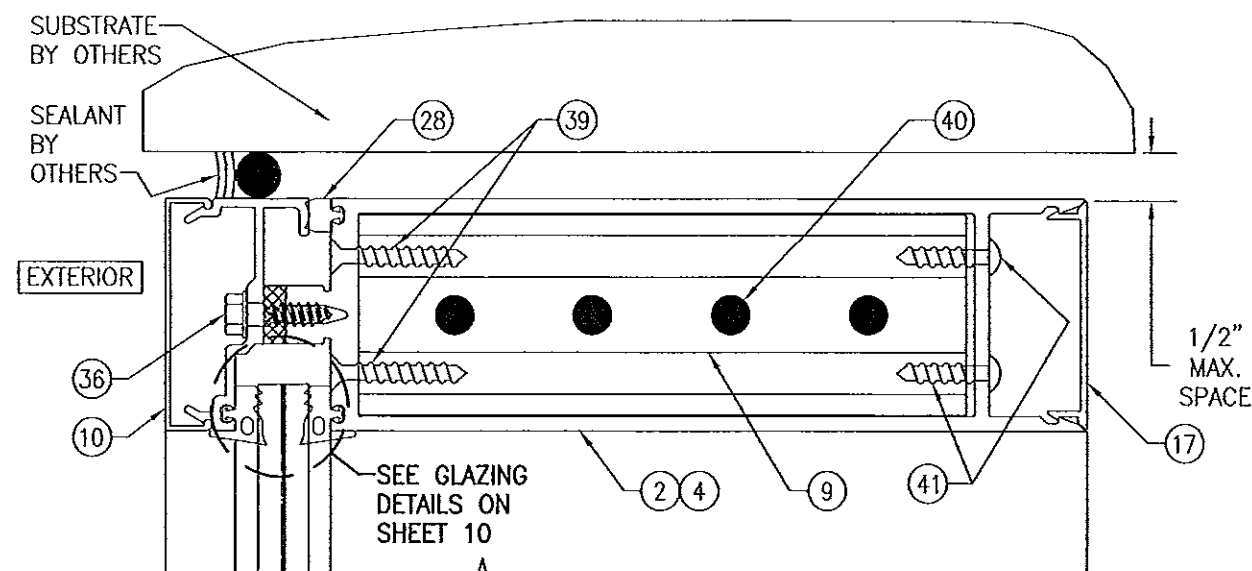
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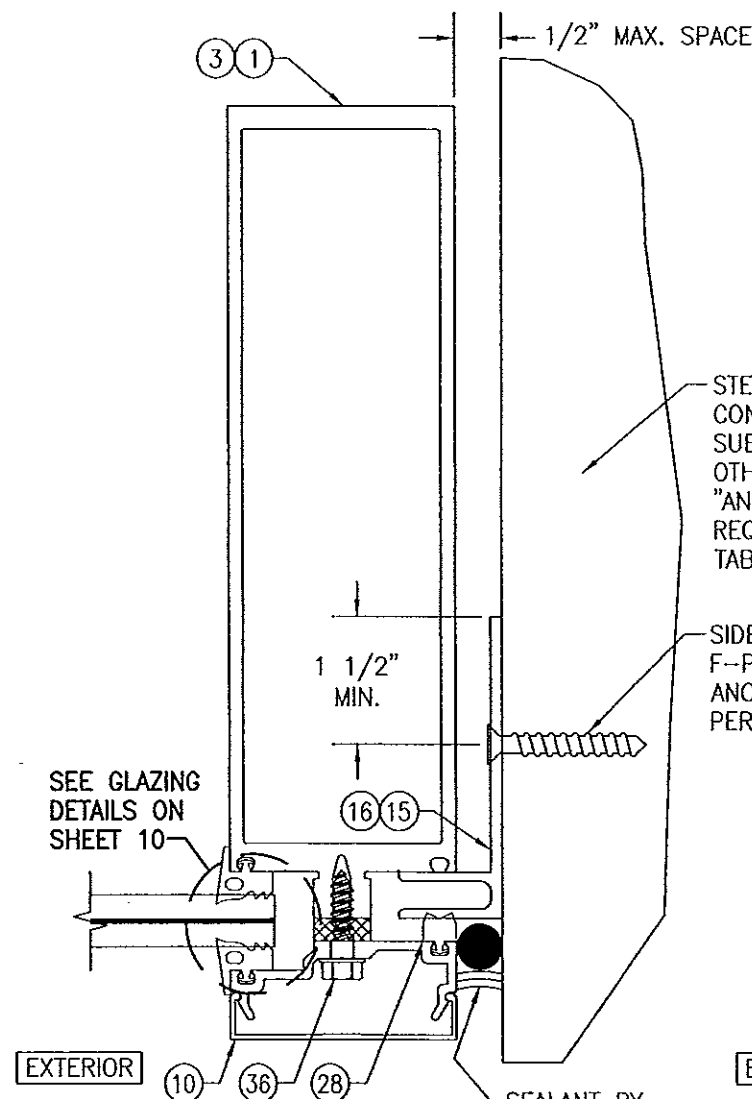
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)		DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		PLOT: 1-4		DATE: 04/04/12	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		DATE			
BY		REVISION DESCRIPTION			
NO.					
DRAWING NO. 1795		REV. A			
SHEET NO. 5				OF 12	



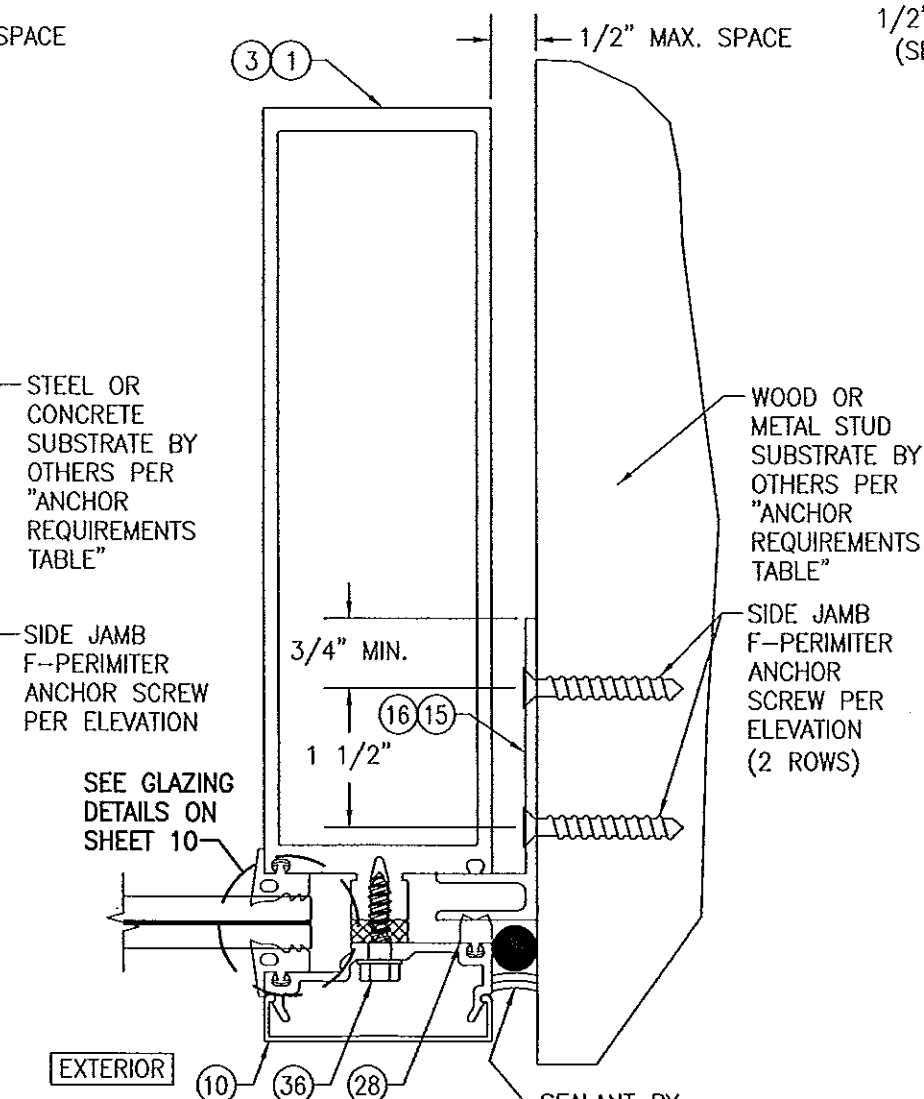
SECTION A1
SCALE: 1/2 FULL



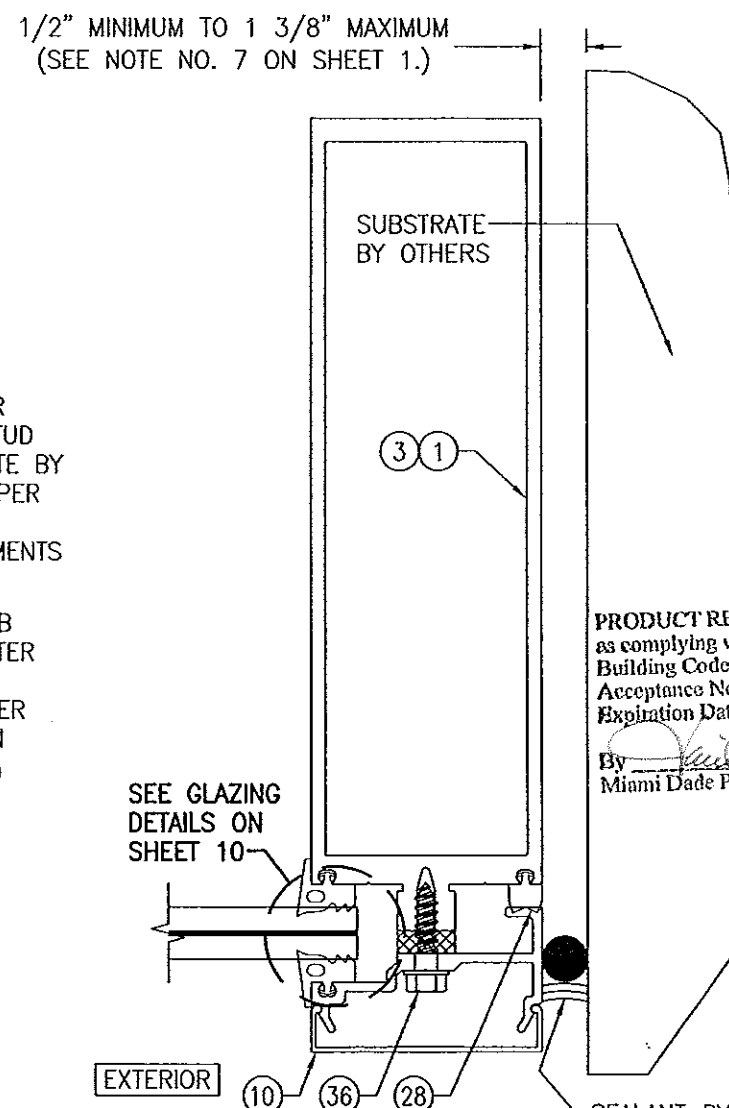
SECTION A2
SCALE: 1/2 FULL



SECTION B1
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO STEEL AND CONCRETE)

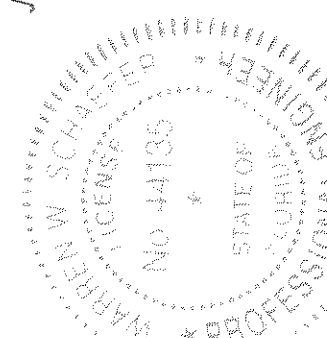


SECTION B2
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)

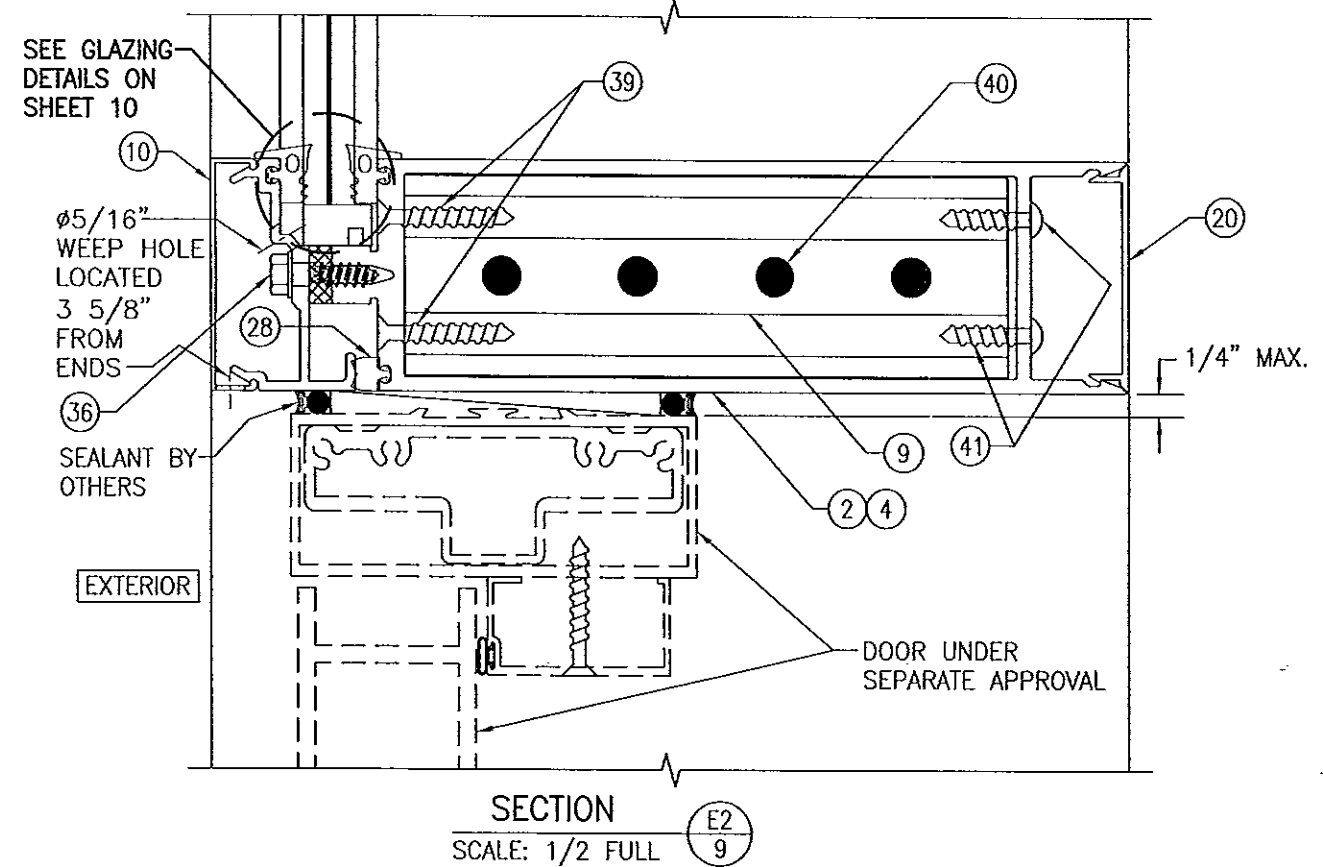
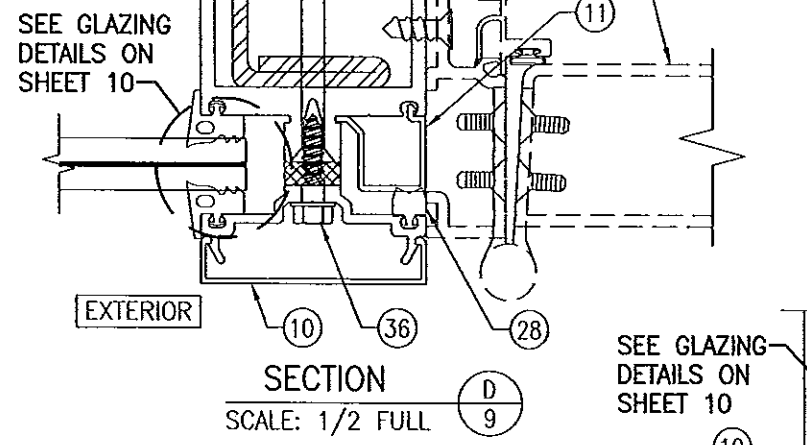
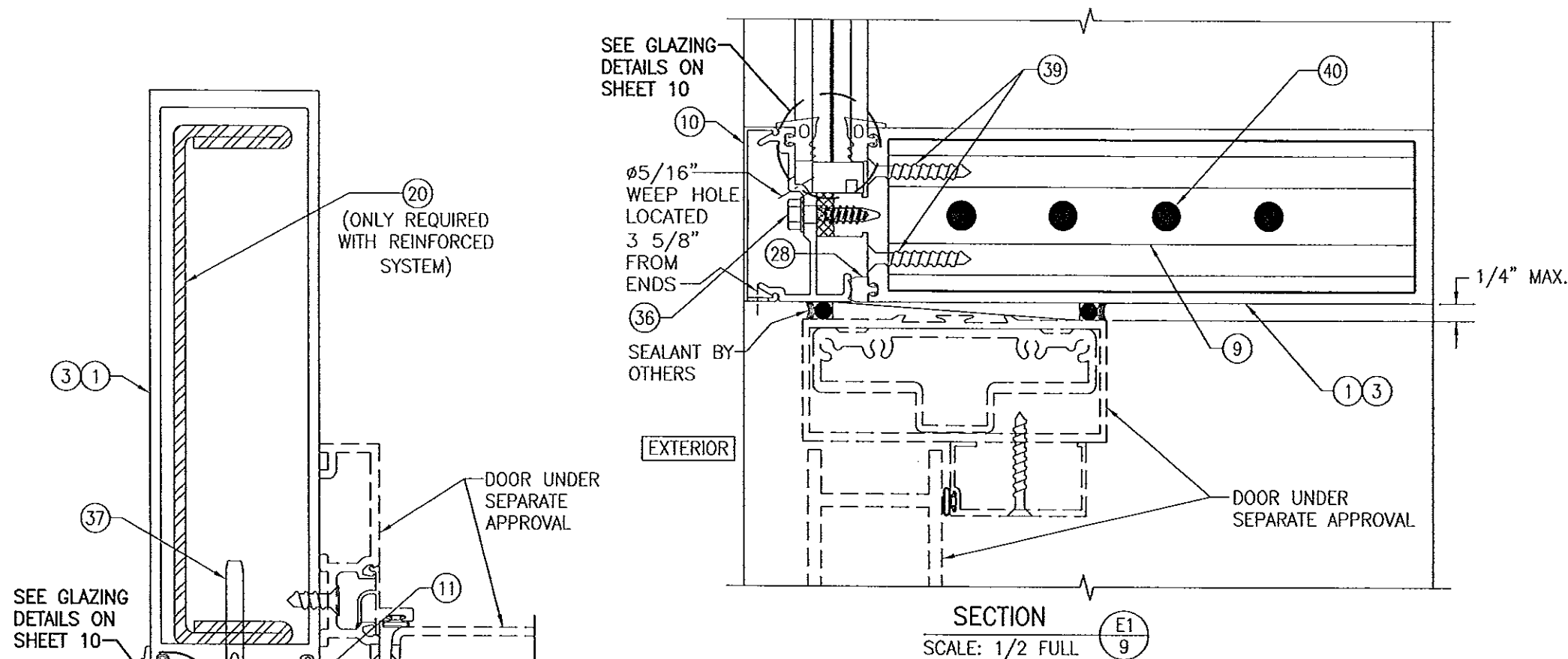


SECTION B3
SCALE: 1/2 FULL
(NO SIDE JAMB F-ANCHOR)

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By Miami Dade Product Control

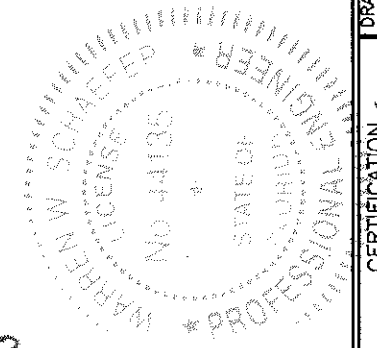



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/04/12
DATE	BY
REVISION DESCRIPTION	BY
NO.	
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1795	REV. A
SHEET NO. 7 OF 12	

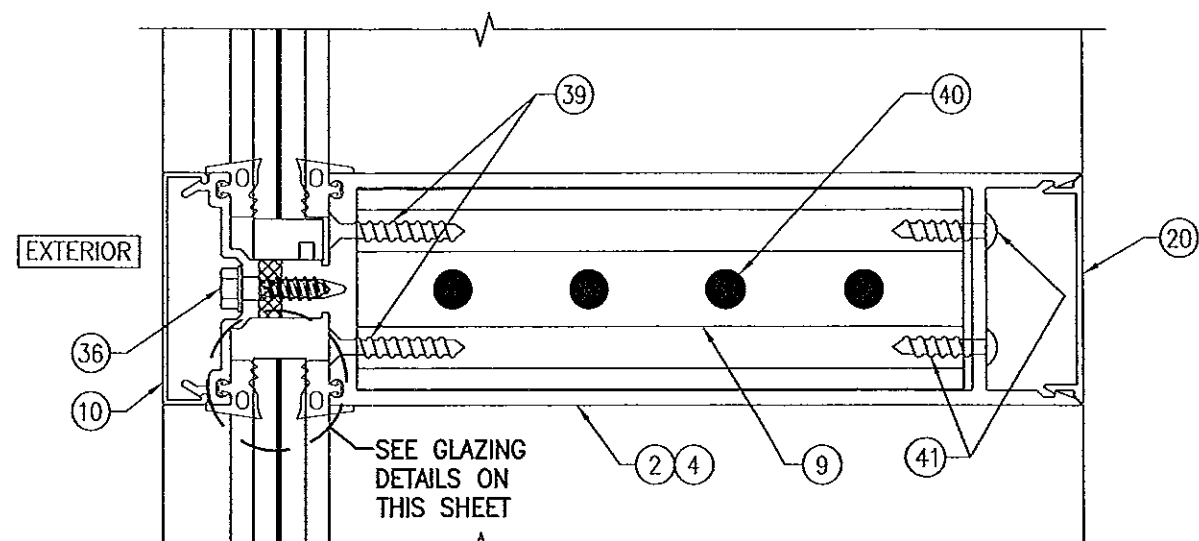


PRODUCT RENEWED
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Building Code
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Expiration Date 01/02/2019

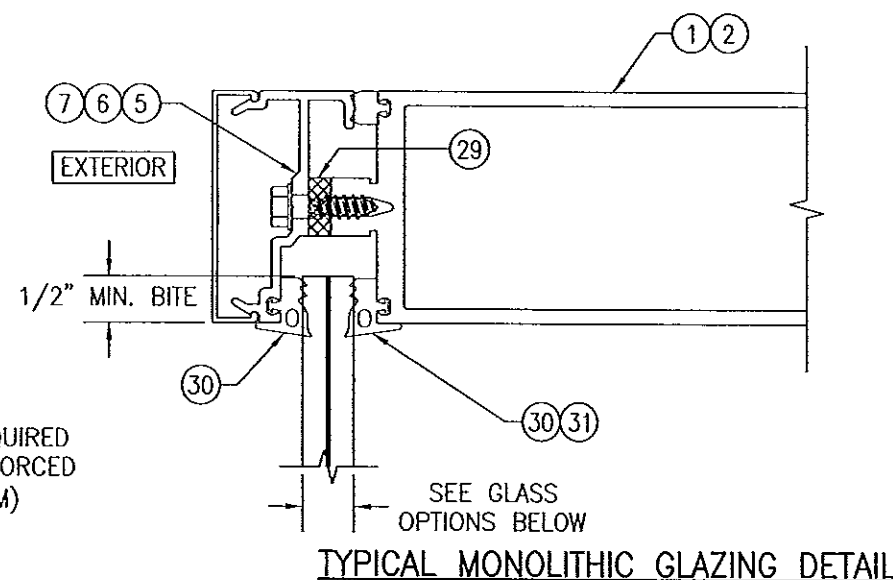
By *[Signature]*
Miami Dade Product Control



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.		
PLOT: 1=2		DATE: 04/04/12		
NO.	REVISION	DESCRIPTION	BY	DATE
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		
CERTIFICATION  SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
DRAWING NO. 1795		REV. A		
SHEET NO. 9 OF 12				



SECTION F2
SCALE: 1/2 FULL 10



TYPICAL MONOLITHIC GLAZING DETAIL

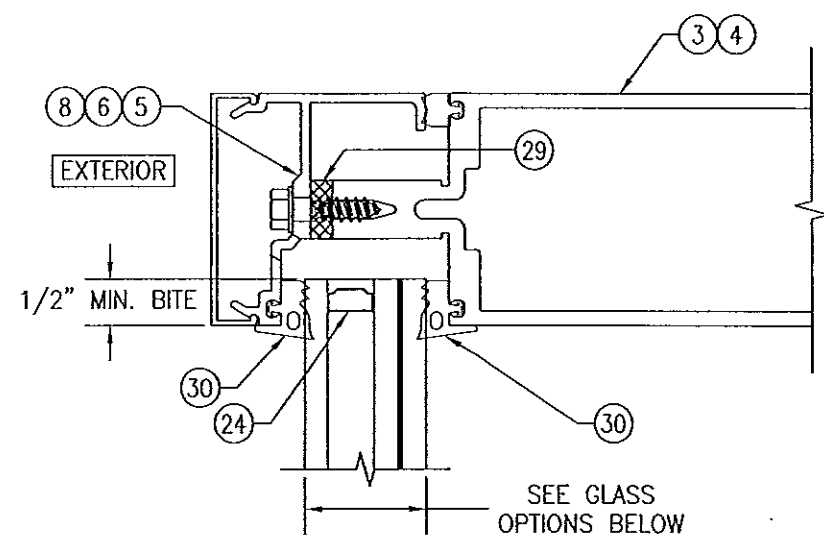
GLASS OPTIONS:

OPTION 1: 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST.)

OPTION 2 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)

OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST.)

OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)



TYPICAL I.G. GLAZING DETAIL

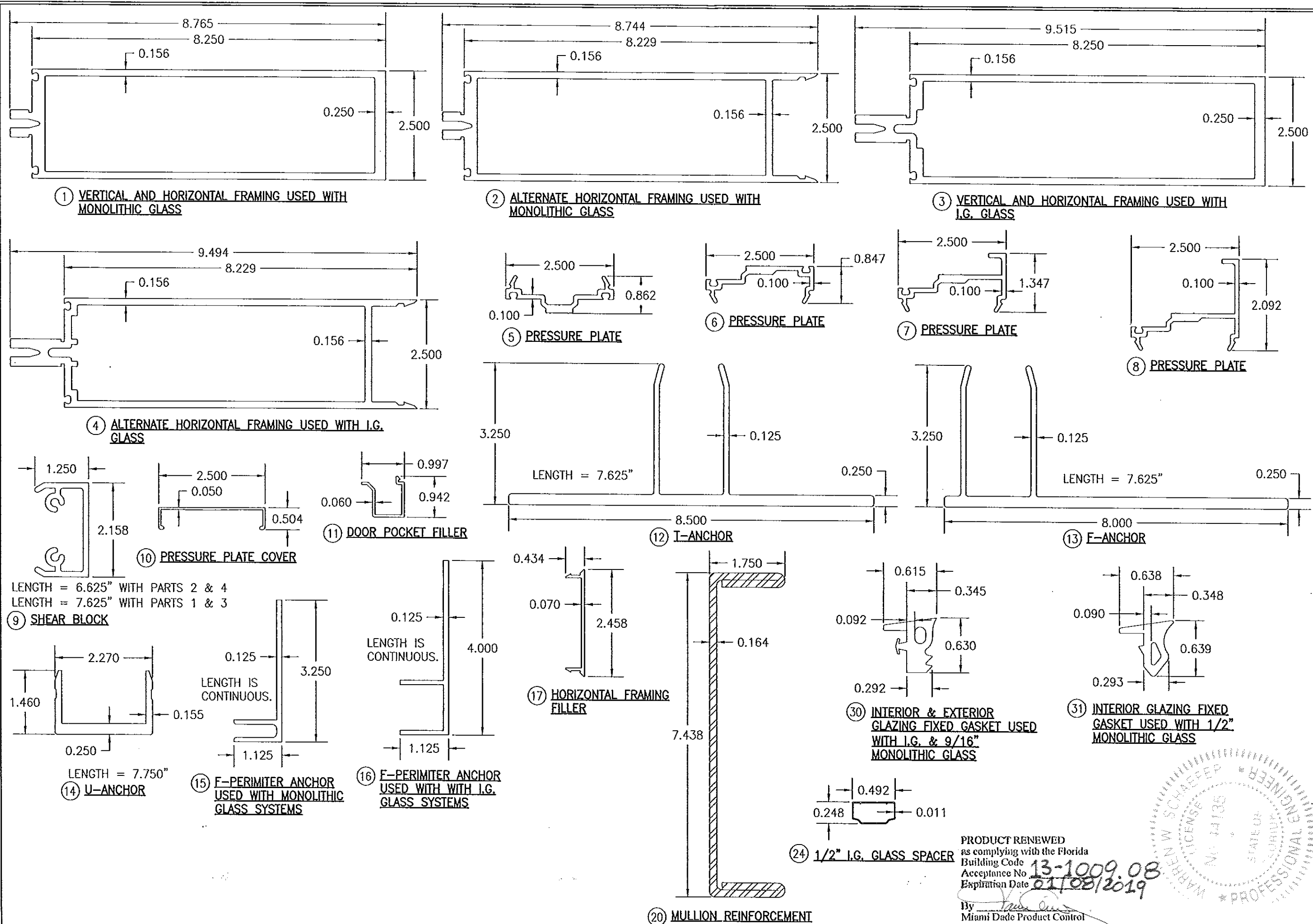
GLASS OPTIONS:

OPTION 5: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST. INTERIOR)

OPTION 6: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST. INTERIOR)

PRODUCT RENEWED
as complying with the Florida
Building Code
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Expiration Date 01/08/2019
By [Signature]
Miami Dade Product Cont. [Signature]

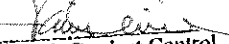
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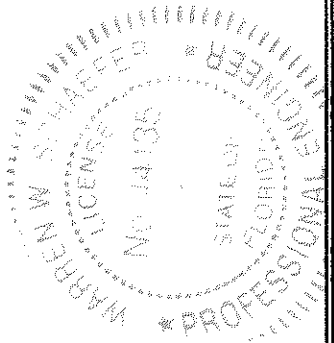


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/04/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: SEP 04 2013		REV. A	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1795	
		SHEET NO. 11 OF 12	

PRODUCT RENEWED
as complying with the Florida
Building Code
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By: [Signature]
Miami Dade Product Control

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	VERTICAL AND HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS	6063-T6 ALUMINUM
2	ALTERNATE HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS	6063-T6 ALUMINUM
3	VERTICAL AND HORIZONTAL FRAMING USED WITH I.G. GLASS	6063-T6 ALUMINUM
4	ALTERNATE HORIZONTAL FRAMING USED WITH I.G. GLASS	6063-T6 ALUMINUM
5	PRESSURE PLATE	6063-T6 ALUMINUM
6	PRESSURE PLATE	6063-T6 ALUMINUM
7	PRESSURE PLATE	6063-T6 ALUMINUM
8	PRESSURE PLATE	6063-T6 ALUMINUM
9	SHEAR BLOCK	6063-T6 ALUMINUM
10	STANDARD PRESSURE PLATE COVER	6063-T6 ALUMINUM
11	DOOR POCKET FILLER	6063-T6 ALUMINUM
12	T-ANCHOR	6063-T6 ALUMINUM
13	F-ANCHOR	6063-T6 ALUMINUM
14	U-ANCHOR	6063-T6 ALUMINUM
15	F-PERIMETER ANCHOR USED WITH MONOLITHIC GLASS SYSTEMS	6063-T6 ALUMINUM
16	F-PERIMETER ANCHOR USED WITH I.G. GLASS SYSTEMS	6063-T6 ALUMINUM
17	HORIZONTAL FRAMING FILLER	6063-T6 ALUMINUM
20	MULLION REINFORCEMENT	ASTM A-653/A-04A GRADE 50
23	5" X 3" X 3/8" X 6" LONG ANGLE	50 KSI STEEL
24	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
SEALS & SEALANTS		
28	FIXED GASKET	TREMCO TR4726P EPDM DUROMETER 70 +/-5
29	THERMAL SEPERATOR	TREMCO TR-4015P EPDM DUROMETER 60 +/-5
30	INTERIOR & EXTERIOR GLAZING FIXED GASKET USED WITH I.G. & 9/16" MONOLITHIC GLASS	TREMCO TR-4014P EPDM DUROMETER 60 +/-5
31	INTERIOR GLAZING FIXED GASKET USED WITH 1/2" MONOLITHIC GLASS	TREMCO TX-4305P EPDM DUROMETER 70 +/-5
32	STEEL TO ALUMINUM SEPERATOR	THERMO-TOK TN-9004
FASTENERS		
36	1/4" X 1" HWHTF TYPE "AB" SCREW 300 SERIES S.S.	WITHIN 3" FROM ENDS & 9" MAX. O.C. (300 SERIES S.S.)
37	1/4-20 X 2" FNTCS 300 SERIES S.S.	WITHIN 9" FROM ENDS & 9" MAX. O.C. (GR. 5 STEEL)
38A	NO. 8 X 1/2" FHTFS 300 SERIES S.S.	8 PER U-ANCHOR AT INTERMEDIATE MEMBERS (4 PER SIDE OF MEMBER)
38B	NO. 8 X 1/2" FHTFS 300 SERIES S.S.	6 PER U-ANCHOR AT SIDE JAMB MEMBERS (AT 1 SIDE OF MEMBER)
39	NO. 12 X 1 1/2" FHTF TYPE "B" SCREW 300 SERIES S.S.	2 PER SHEAR BLOCK (300 SERIES S.S.)
40	NO. 12 X 7/16" PHTF TYPE "AB" SCREW 300 SERIES S.S.	4 PER SHEAR BLOCK (430 SERIES S.S.)
41	NO. 12 X 1" PHTF TYPE "AB" SCREW 300 SERIES S.S.	2 PER SHEAR BLOCK (300 SERIES S.S.)

PRODUCT RENEWED
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DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/04/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 04 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1795		REV. A	
SHEET NO. 12 OF 12			